



- election controller
- election completer
- candidate register
- election vote completer
- election voter
- election vote counter
- election seat assigner

TK01 election controlling	PK01 election controlling for [period] is done	AR01 election controller
TK02 election completing	PK02 [election] is completed	AR02 election completer
TK03 election seat assigning	PK03 the seat of [election] is assigned	AR03 election seat assigner
TK04 election vote completing	PK04 the election vote is completed	AR04 election vote completer
TK05 election group creating	PK05 the group for [election] is created	AR05 election group creator
TK06 election voting	PK06 the vote for [election] is voted	AR06 election voter
TK07 election vote counting	PK07 the vote for [election] is counted	AR07 election vote counter

45

ARS-1 (Executed by ARO1)

when election controlling for [period] is requested

assess with the obligator of [election] is a no day
sincerity: the performer of the request is the election controller
truth: the of [period]
the addresser of the request is the election controller

if then promise election controlling for [period]
to the performer of the request

request election controlling for [period]
to the election controller of [period]

else decline election controlling for [period]
to the performer of the request
with * *

request election controlling for [period]
to the election controller of [period]

334
341

AO2

ARS-2 (executed by ARO1)

when election controlling for [period] is promised

assess sincerity: the performer of the promise is the election controller
truth: the addresser of the promise is the election controller
of [period]
of [period]

sincerity: the number of countries on [period] is
truth: equal to 27

if then for each [country] in countries on [period]

request election completing for [election]

to same election completer

with the country of [election] is [country]
the

ARS - 3 (Executed by ARO1)

② when election controlling for [period] is promised
while for each [country] in countries on [period]
election controlling for [election] is accepted

assert rightness: the performer of the promise is the
election controller of [period]
the addressee of the promise is the
election controller of [period]

if
then execute election controlling for [period]
declare election controlling for [period]
to the election controller of period

ARS - 4 (Executed by ARO1)

when election controlling for [period] is declared

assert rightness: the performer of the declared is the
election controller of [period]
the addressee of the declared is the
election controller of [period]

sincerity : ...
truth : ...

if
then accept election controlling for [period]
to the election controller of [period]
else reject election controlling for [period]
to the election controller of [period]

ARS - 5 (Executed by ARO2)

when election completing for [election] is requested
with starting day of [election] is some day
ending day of [election] is some day
voter of [election] is some person
candidate of [election] is some person
country of [election] is some country

asserts:

rightness: the performer of the request is the voter
is the election controller
the addressee of the request
is the election completer

sincerity: * *

truth: the ending day of [election] is equal to
or greater than the starting day of [election]

if performing the action after then is considered justifiable

then promise election completing for [election]
to the election controller of [election]

request election seat assigning for [election]
to the election seat assigner of [election]
with the requested seat amount of [election]
is equal to the standard seat amount
for the country of [election] in the
year of the starting day of [election]

else decline election completing for [election]
to the election controller of [election]
with * reason to decline *

ARS - 6 (Executed by ARO2)

when election seat assigning for [election] is declared

asserts: rightness: the performer of the declaration is the
election seat assigner of [election]

the addressee of the declaration is the

sincerity: * election completer of [election]

truth: the declared seat amount of election seat assigning for [election]
is equal to the promised seat amount of election seat assigning

if
then accept election set assigning for [election]
to the election set assigner of [election]
else reject election set assigning for [election]
to the election set assigner of [election]
with * reason to reject *

ARS-7 (Executed by AR02)

when election completing for [election] is promised
while election seat assigning for [election] is accepted

asserts: \neg rightness : * *
 sincerity : * *
 truth : * *

if
then
request election vote completing for [election]
to the election vote completer
with the requested of election vote completing for [election]
is within the starting day of [election].

ARS-8 (Exempted by ARD24)

When election vote completing for [election] is requested
with the starting day of [election] is some day
the end day of [election] is some day
the country of [election] is some country

assess : rightness : the performer of the request
is the election vote computer of [election]
the addressee of the request
sincerity : * * is the election voter
truth : the ending day of [election] is equal or greater than the
starting day of [election]

The number of votes in the country of [election] on every day between the starting day of [election] and the ending day of [election] is less than cast votes

then promise election vote competing for [election]
request to the election vote competitor of [election]

request election voting for [election]
to the election voter of [election]
else decline ^{with the promised vote amount of [election]} election vote completing for [election]
to the election vote completer of [election]
with * reason for decline *

ARS-9 (Executed by AR04)

when election voting for [election] is declared

assert rightness: the performer of the declaration
is the election voter of [election]
the addressee of the declaration
is the election vote completer of [election]

sincerity: * *

truth: the declared of election voting for [election] is within
the promise of election voting for [election]

if
then accept election voting for [election] is equal then or less than the
promised vote amount of election voting
for [election]

if
then accept election voting for [election] to the election voter of [election]
else reject election voting for [election] to the election voter of [election]
with * reason of rejection *

ARS-10 (Executed by AR04)

when election vote completing for [election] is promised
while election voter for [election] is accepted

assert: rightness: * *
sincerity: * *
truth: * *

if
then request election vote canting for [election]
to the election vote completer

ARS-11 (Executed by AR04)

when election vote canting for [election] is declared

assert: rightness the performer of the declaration
is the election vote canter of [election]
the addressee of the declaration
is the election vote completer

sincerity: * *

truth: ALGORITHM

if
then accept election vote counting for [election]
to the performer of the declaration
else reject election vote counting for [election]
to the performer of the declaration
with * *

ARS-12 (Executed by AR04)

when election vote completing for [election] is promised
while election vote counting for [election] is accepted

assess: rightness : * *
sincerity : * *
truth : * *

if
then execute election vote completing for [election]
declare election vote completing for [election]
to the election completer of [election]

ARS-13 (Executed by AR02)

when election completing for [election] is promised
while election vote completing for [election] is accepted

assess: rightness : * *
sincerity : * *
truth : * *

if
then request election group creating for [election]
to the election group creator of [election]
with the vote amount of [election] is equal to
the cost vote of [election]

ARS-14 (Executed by AR02)

when election groups creating for [election] is declared

assess rightness: the performer of the declaration
is the election group creator of [election]
the addressee of the declaration
is the election completer

sincerity : * *

truth : the declared of election group creating for [election] is within
the promised of election group creating for [election]
the declared election groups amount of election group creating
for [election] is equal to the promised election group amount
of election group creating for [election]

if
 then accept election group creating for [election]
 to the election group creator of [election]
 else reject election group creating for [election]
 to the election group creator of [election]
 with * reason for rejecting *

ARS-15 (Executed by ARO2)

when election completing for [election] is promised
 while election group creating for [election] is accepted

assess rightness: * *
 sincerity: * *
 truth : * *

if
 then execute election completing for [election]
 declare election completing for [election]
 to the election controller of [election]

+
 1X4

ARS-16 (Executed by ARO3 similar to ARO5, ARO6, ARO7)

when election seat assigning for [election] is requested
 with country of [election] is same country

assess rightness: the performer of the request is the election completer
 of [election]
 the addressee of the request is the election seat assigner
 of [election]
 sincerity: * *
 truth : * *

if
 then promise election seat assigning for [election]
 to the election completer of [election]
 else decline election seat assigning for election
 to the election seat assigner of [election]
 with * reasons *

+
 1X4

ARS-17 (...)

when election seat assigning for [election] is promised

assess rightness: the performer of the promise is the e.s. assigner
 of [election]
 the addressee of the promise is the election completer
 of [election]
 sincerity: *
 truth : *

if
then execute e.s. assigning for [election]

declare e.s. assigning for [election]
to the election completer of [election]

ARS-18 (...)

4x1

when e.s. assigning for [election] is declared
asserts rightness: the performer of the declaration is
the e.s. assigner of [election]
The addressee of the declaration is
the election completer of [election]
sincerely : * *
truth :

if
then accept e.s. assigning for [election]
to the e.s. assigner of [election]
else reject e.s. assigning for [election]
to the e.s. assigner of [election]
with * reason *

(+7)

